

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named

Inventor

: Peter Crane et al.

Appln. No.

: 09/808,843

Filed

: March 15, 2001

Title

: MICRO-ACTUATOR STRUCTURE FOR

IMPROVED STABILITY

Docket No.

: I69.12-0487

Group Art Unit: 2652

Examiner: T. Chen

EXPRESS MAIL COVER SHEET

Mail Stop Non-Fee Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SENT VIA EXPRESS MAIL

Express Mail No.: EV 215783830 US

Sir:

The following papers are being transmitted via **EXPRESS MAIL** to the U.S. Patent and Trademark Office on the date shown below:

- 1. Postcard
- 2. Fee Transmittal (In Duplicate)
- 3. Amendment

Respectfully submitted,

KINNEY & LANGE, P.A.

Date: 5 19 03

By

Gayle A. Bush, Reg. No. 52,677

THE KINNEY & LANGE BUILDING

312 South Third Street

Minneapolis, MN 55415-1002 Telephone: (612) 339-1863

Fax: (612) 339-6580

Total Amount of Payment \$-0-	Filin First Grod		e ed In	ventor	09/808,843 March 15, 2003 Peter Crane et al.	
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METHOD OF PAYMENT (Check One) 1. [X] The Commissioner is hereby authorized to charge	3 Δ Γ	DITIO	VAI F		ALCULATION (Continued)	-
any additional fee required under 37 C.F.R. 1.16 and 1.17 and credit any over payments to Deposit Account No.11- 0982. Deposit Account Name: Kinney & Lange, P.A.		Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	,	e paid
2. [] Check Enclosed	105	130	205	65	Surcharge - Late filing fee or oath	-
FEE CALCULATION	127	50	227	25	Surcharge - late provisional filing fee or cover sheet	-
	139	130	139	130	Non-English specification	-
1. BASIC FILING FEE	147	2,520	147	2,520	For Filing a Request for Reexamination	-
Large Entity Small Entity Fee Fee Fee Fee Fee Fee Fee Fee	115	110	215	55	Extension for reply within first month	_
Code (\$) Code (\$) Fee Description 101 710 201 355 [] Utility Filing Fee	116	390	216	195	Extension for reply within second month	_
106 320 206 160 [] Design Filing Fee	117	890	217	445	Extension for reply within third month	_
108 710 208 355 [] Reissue Filing Fee	118	1,390	218	695	Extension for reply within fourth month	_
114 150 214 75 [] Prov. Filing Fee	128	1,890	280	945	Extension for reply within fifth month	_
Subtotal (1) \$-0-	120	310	220	155	Filing a brief in support of an appeal	_
2. EXTRA CLAIM FEES	121	270	221	135	Request for oral hearing	_
Number Prior Extra Fee from Fee Paid Claims Below	148	110	248	55	Terminal Disclaimer Fee	_
Total $20 - 20 = 0 \times 0 = 0$	140	110	240	55	Petition to revive - unavoidable	_
Indep. $3 - 3 = 0 \times 0 = 0$	141	1,240	241	620	Petition to revive - unintentional	_
	142	1,270	242	650	Utility/Reissue issue fee (inc. advance	
Multiple Dependent Claims = = = Insert 3 and 20, or number previously paid if greater; Reissue see					copies)	-
below	143	440	243	220	Design issue fee (inc. advance copies)	-
Large Entity Small Entity Fee Fee Fee Description	122	130	122	130	Petitions to the Commissioner	-
Code (\$) Code (\$) 103 18 203 9 Claims in excess of 20	123	50	123	50	Petitions related to provisional applications	-
102 80 202 40 Independent claims in excess of 3	126	180	126	180	Submission of Information Disclosure Statement	_
104 270 204 135 Multiple Dependent Claim	581	40	581	40	Recording each patent assignment per property (times number of properties)	_
109 80 209 40 Reissue Independent Claims Over Original Patent	Othor	fee (spec	rify)		Property (miles municer of brobernes)	
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Signature	C MUVIUS (Reg. No	52,677	
_	Gayle/A. Bush			
Date	5/19/03	Deposit Account No.	11-0982	
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AMENDMENT

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Technology Center 2600

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Sir:

This is in response to the Office Action mailed on February 21, 2003. Please amend the above-identified application as follows:

IN THE CLAIMS

Please amend claims 7, 11 and 20 (marked up version attached in Appendix) and add new claims 21-23, such that pending claims 1-23 are as follows:

A microactuator for finely positioning a transducing head carried by a slider adjacent a select radial track of a disc, the microactuator comprising:

a microactuator frame having a stator and having a rotor which holds the slider and is movable with respect to the stator; and

means for limiting deflection of the stator out of a plane defined by the microactuator frame.

The microactuator of claim 1 wherein the means for limiting deflection of the stator comprises a peam structure operatively connecting the rotor to the stator so as to permit movement of the rotor with respect to the stator, the beam structure including a first beam pair element defining a rotation center and a second beam pair element arranged to restrain the stator from twisting out of plane.

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